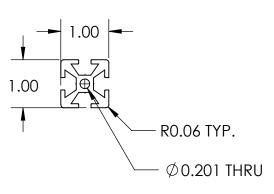


Part Number	Length (in.)	Quantity
EML2322L-0001	7.0	3
EML2322L-0002	12.5	2
EML2322L-0003	3.0	2
EML2332L-0031	8.5	2
EML2332L-0032	8.0	1
EML2322L-0036	15.7	1
EML2322L-0051	5	1
EML2322L-0054	12	1



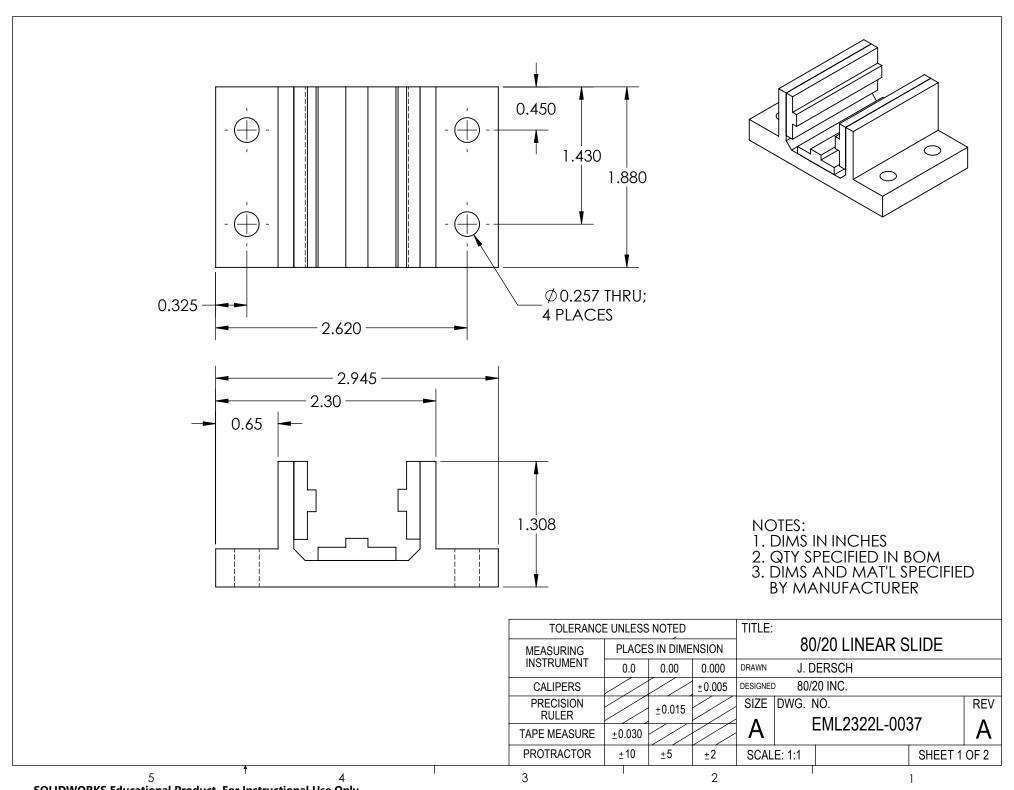
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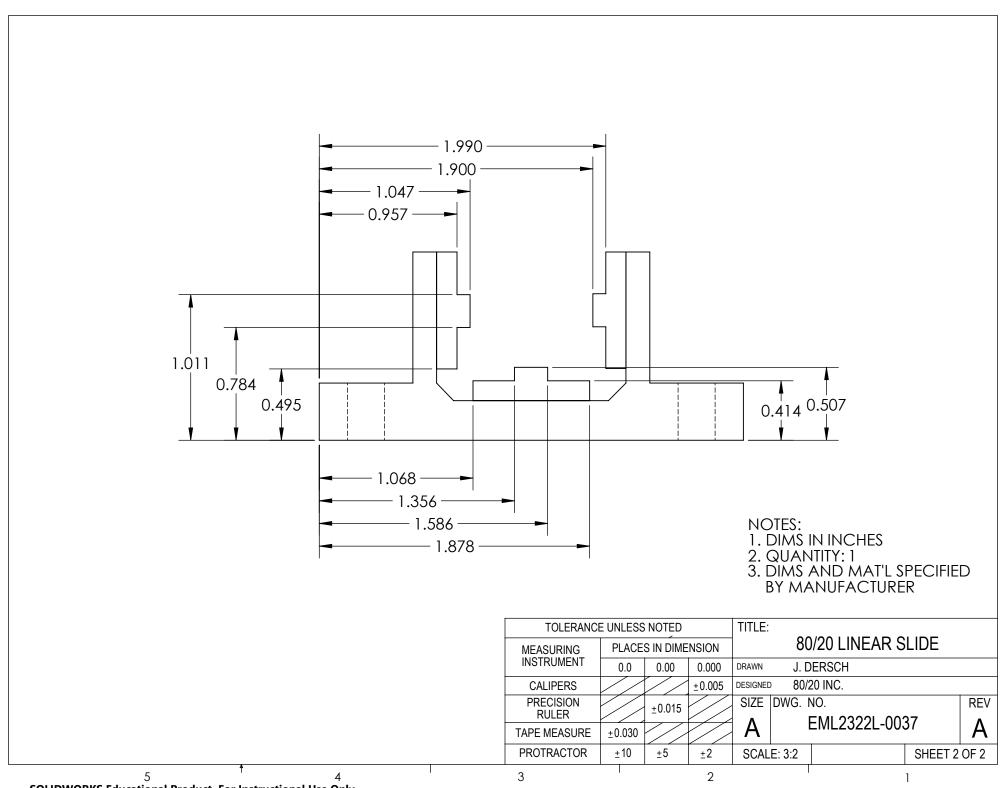
1. DIMS IN INCHES

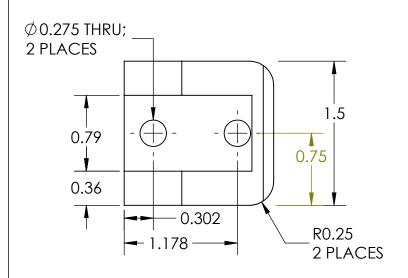
2. MAT'L: 80/20 AL EXTRUSION

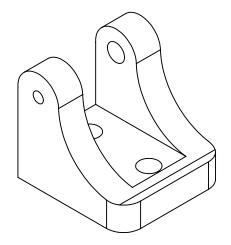
3. BREAK CUT ENDS
4. FINISH NO SURFACES
5. QTY SPECIFIED IN TABLE
6. USE CUT OFF TOLERANCES

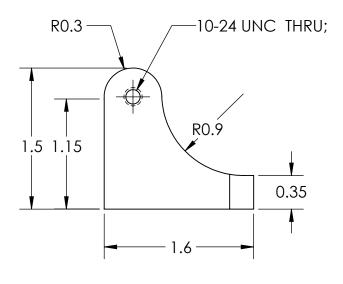
TOLERANCE	- UNI ESS	NOTED		TITLE:					
		S IN DIME	NSION	111122.		0/20 EXTR	US	ION	
OPERATION	0.0	0.00	0.000	DRAWN	MA	RK YEN			
MACHINING	±0.050	±0.020	±0.005	DESIGNED	l. W	/IDJAJA			
CUT OFF (SAW, BURN, SHEAR)	±0.1	±0.060		SIZE	DWG. 1	NO. EML2322L-	vv	V	REV
WELDING	±0.1	±0.060		Α	l	EIVILZ3ZZL-	·\\	^	А
ANGULAR DIMS	±5	±2	±0.5	SCAL	E: 1:2			SHEET 1	OF 1

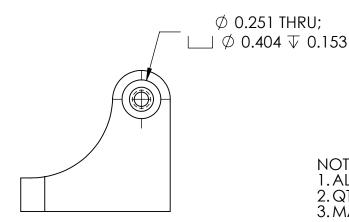












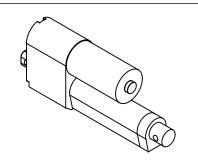
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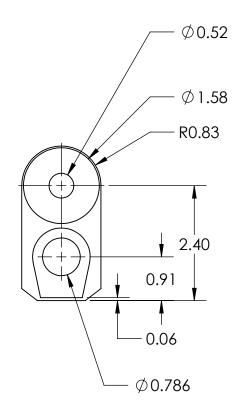
**NOTES:** 1. ALL DIMS IN INCHES
2. QTY SPECIFIED IN BOM
3. MAT'L: ALUMINUM

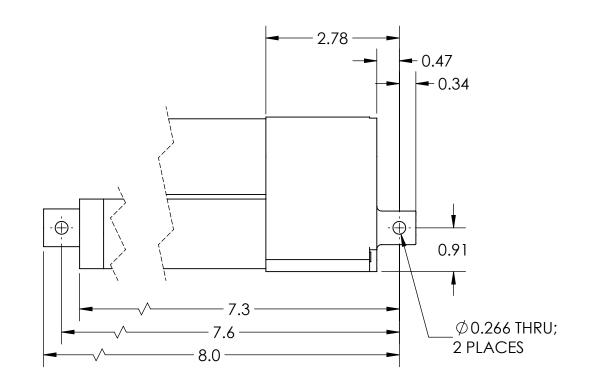
TOLERANCI	E UNLESS	NOTED		TITLE:				
OPERATION	PLACE	S IN DIME	NSION	10-2	24 LIN	IEAR ACTUAT	OR MO	UNT
OPERATION	0.0	0.00	0.000	DRAWN	T. T	HORNTON		
MACHINING	±0.050	±0.020	±0.005	DESIGNED	CO	NCENTRIC INTERN	IATIONAL	
CUT OFF (SAW, BURN, SHEAR)	±0.1	±0.060		SIZE	DWG. 1	NO. EML2322L-003	20	REV
WELDING	±0.1	±0.060		Α	l	EIVILZ3ZZL-UU	39	A
ANGULAR DIMS	±5	<u>+</u> 2	±0.5	SCAL	E: 1:1		SHEET 1	OF 1

2

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## **ACTUATOR EXTENDS 4"**

## NOTES:

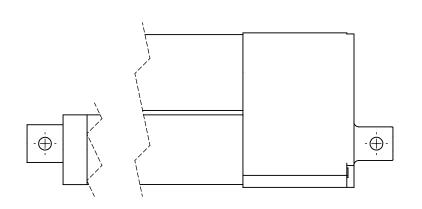
- 1. DIMS IN INCHES
- 2. QTY SPECIFIED IN BOM
- 3. DIMS AND MAT'L SPECIFIED BY MANUFACTURER

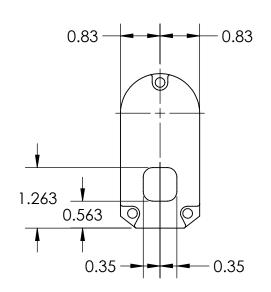
TOLERANCI	UNLESS	NOTED		TITLE:					
MEASURING	PLACE	S IN DIME	NSION	30	IPM SI	PAL LINE	EAR ACT	UATOR (	2 in)
INSTRUMENT	0.0	0.00	0.000	DRAWN	J. l	DERSCH			
CALIPERS			±0.005	DESIGNED	SP	PAL			
PRECISION RULER		±0.015		SIZE	DWG.				REV
TAPE MEASURE	±0.030			Α		EML23	22L-00 <sup>4</sup>	40	Α
PROTRACTOR	±10	±5	±2	SCAL	E: 1:2			SHEET 1	OF 2

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2





**ACTUATOR EXTENDS 4"** 

NOTES:

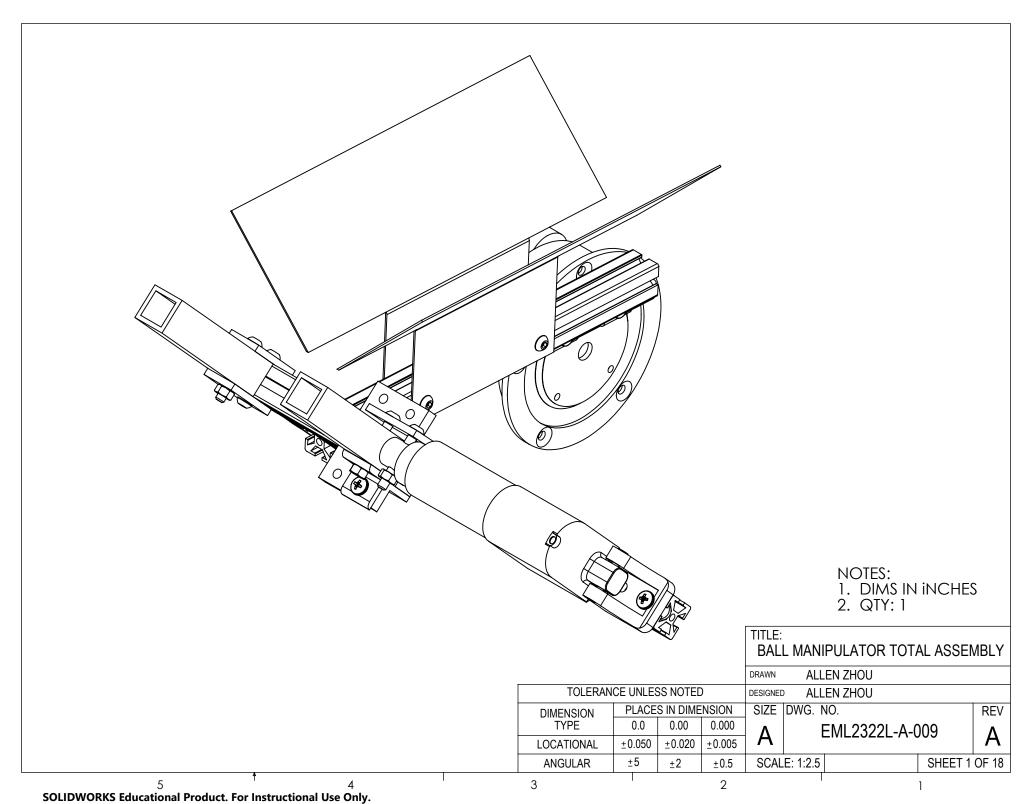
1. DIMS IN INCHES

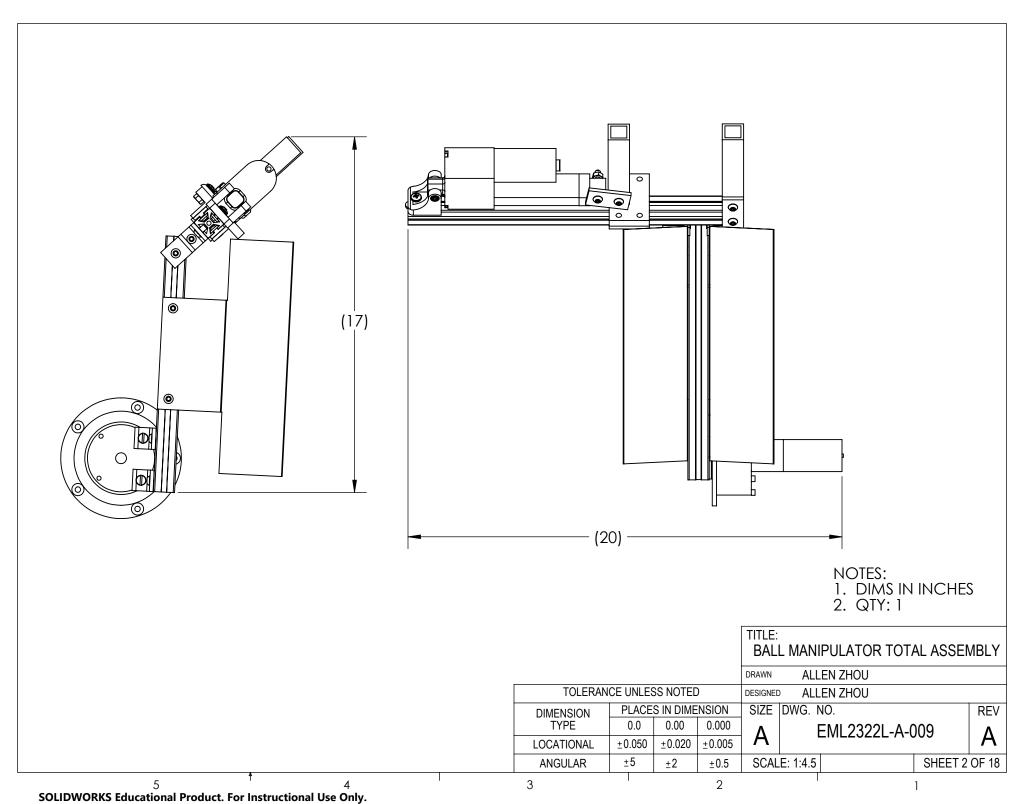
2. QTY SPECIFIED IN BOM

3. DIMS AND MAT'L SPECIFIED BY MANUFACTURER

	TOLERANCE	E UNLESS	NOTED		TITLE:				
	MEASURING	PLACE	S IN DIME	NSION	30	IPM SF	PAL LINEAR ACT	TUATOR (	2 in)
	INSTRUMENT	0.0	0.00	0.000	DRAWN	J. D	ERSCH		
I	CALIPERS			±0.005	DESIGNED	SP/	AL		
	PRECISION RULER		±0.015		SIZE	DWG. I			REV
	TAPE MEASURE	±0.030			Α		EML2322L-00	40	Α
	PROTRACTOR	±10	±5	±2	SCAL	E: 1:2		SHEET 2	OF 2

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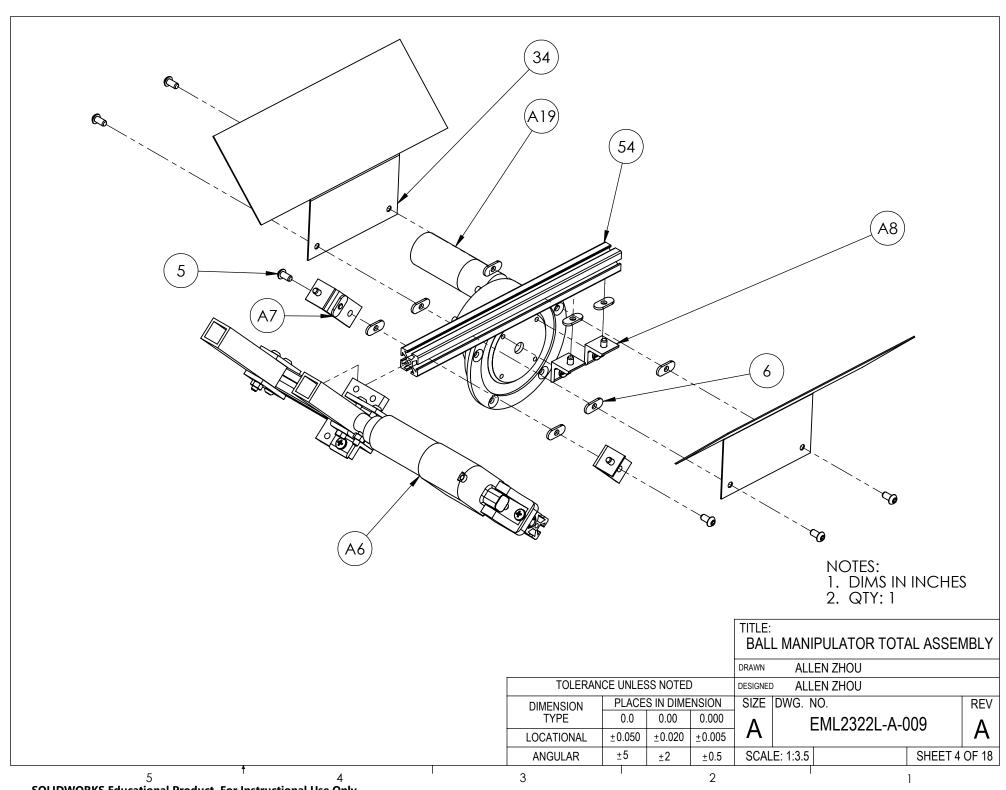


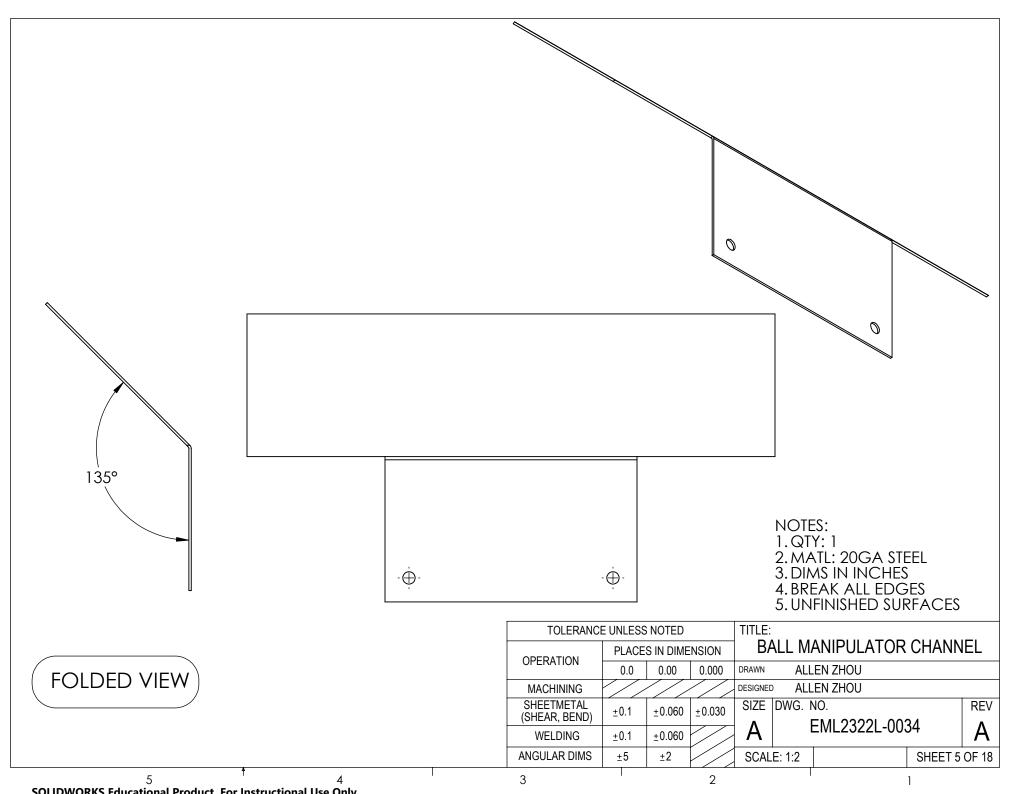


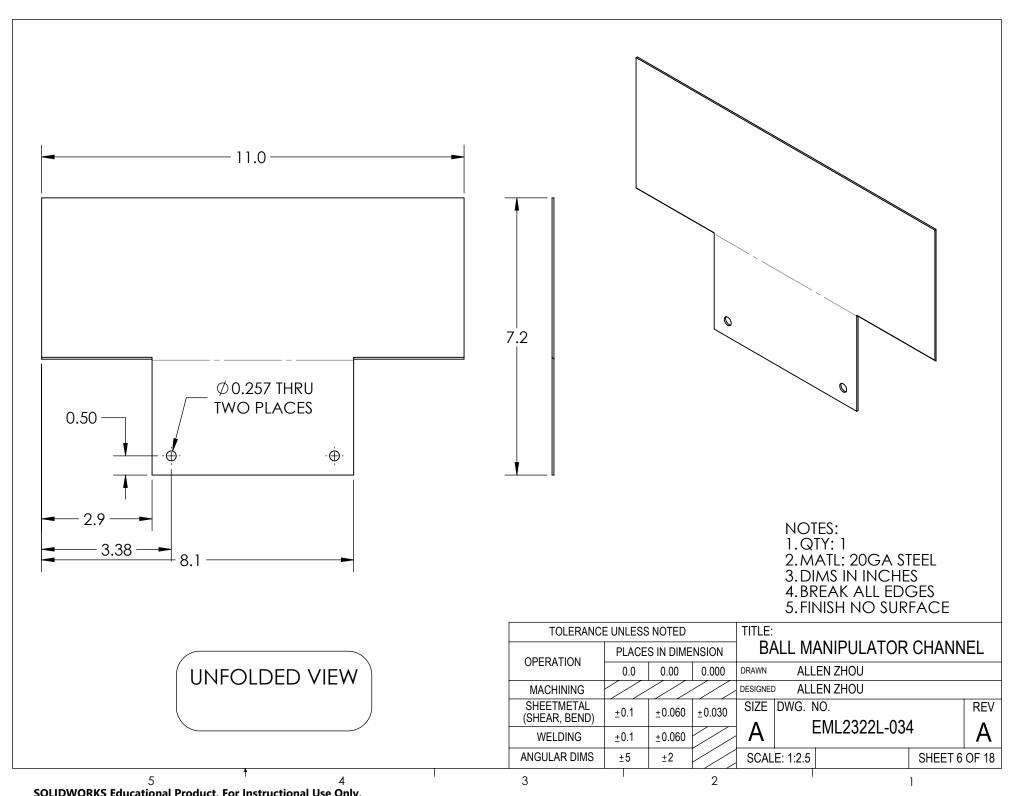
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	6
6	EML2322L-0006	1/4-20 T-NUT	8
34	EML2322L-0034	BALL MANIPULATOR CHANNEL	2
54	EML2322L-0054	80/20 EXTRUSION - 12 in	1
A6	EML2322L-A-006	CLAW ASSEMBLY	1
A7	EML2322L-A-007	CLAW MOUNT	2
A8	EML2322L-A-008	GLOBE MOTOR BRACKET ASSEMBLY	2
A19	EML2322L-A-019	4.5 RPM GLOBE MOTOR	1

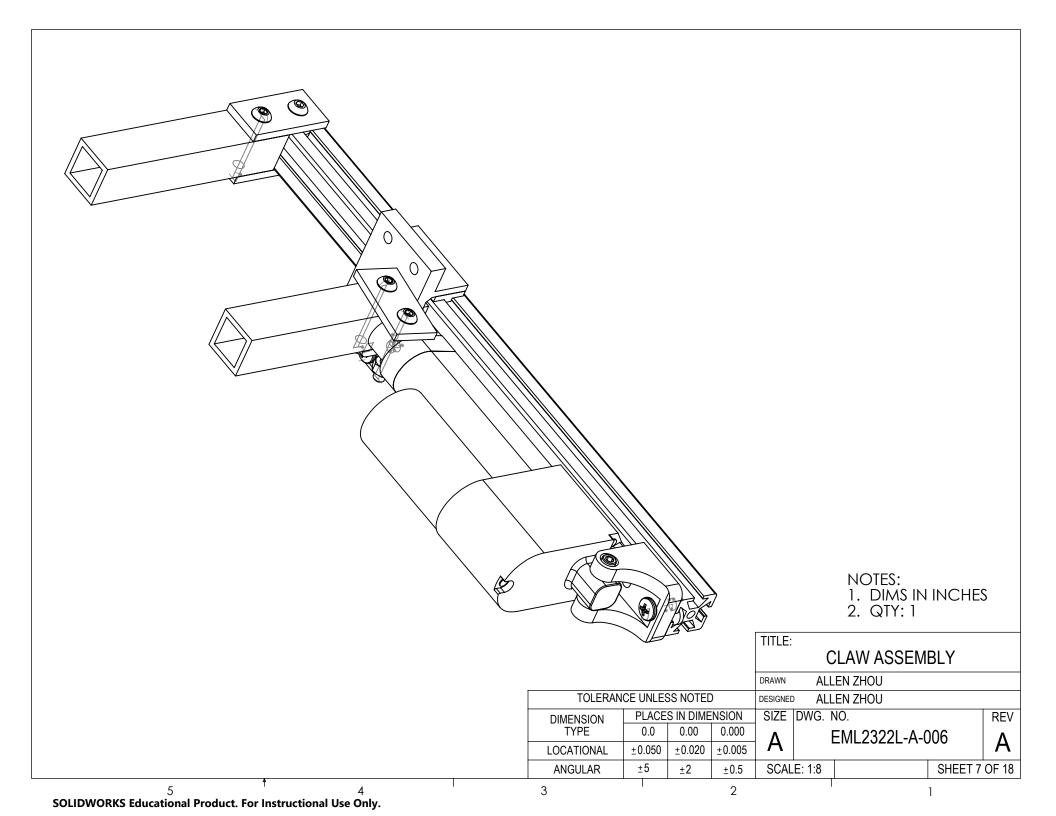
BALL MANIPULATOR TOTAL ASSEMBLY

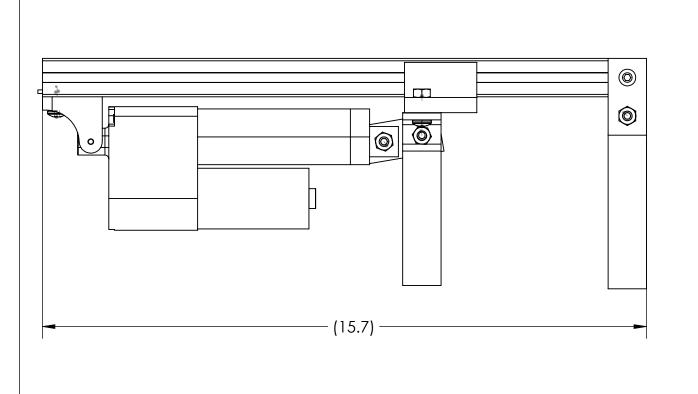
					DRAWN	ALL	.EN ZHOU		
	TOLERANCE UNLESS NOTED					ALL	EN ZHOU		
Ī	DIMENSION	PLACE	S IN DIME	NSION	SIZE	DWG. 1	NO.		REV
	TYPE	0.0	0.00	0.000	Λ.		EML2322L-A-(	<b>109</b>	Λ.
Ī	LOCATIONAL	±0.050	±0.020	±0.005	A	'		300	А
	ANGULAR	±5	±2	±0.5	SCAL	E: 1:8		SHEET 3	OF 18

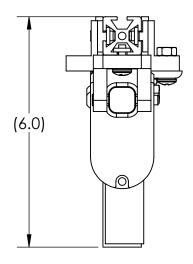












NOTES: 1. QTY: 1 2. DIMS IN INCHES

				11166.	C	CLAW ASSEN	1BLY	
				DRAWN	ALL	EN ZHOU		
TOLERAN	CE UNLES	SS NOTED	)	DESIGNED	ALL	EN ZHOU		
DIMENSION	PLACE	S IN DIME	NSION	SIZE	DWG. 1	NO.		REV
TYPE	0.0	0.00	0.000	Λ.		EML2322L-A-	006	۸
LOCATIONAL	±0.050	±0.020	±0.005	A	•	LIVILLOLLL 7	000	А
ANGULAR	±5	<u>±</u> 2	±0.5	SCAL	E: 1:2.5		SHEET 8	OF 18

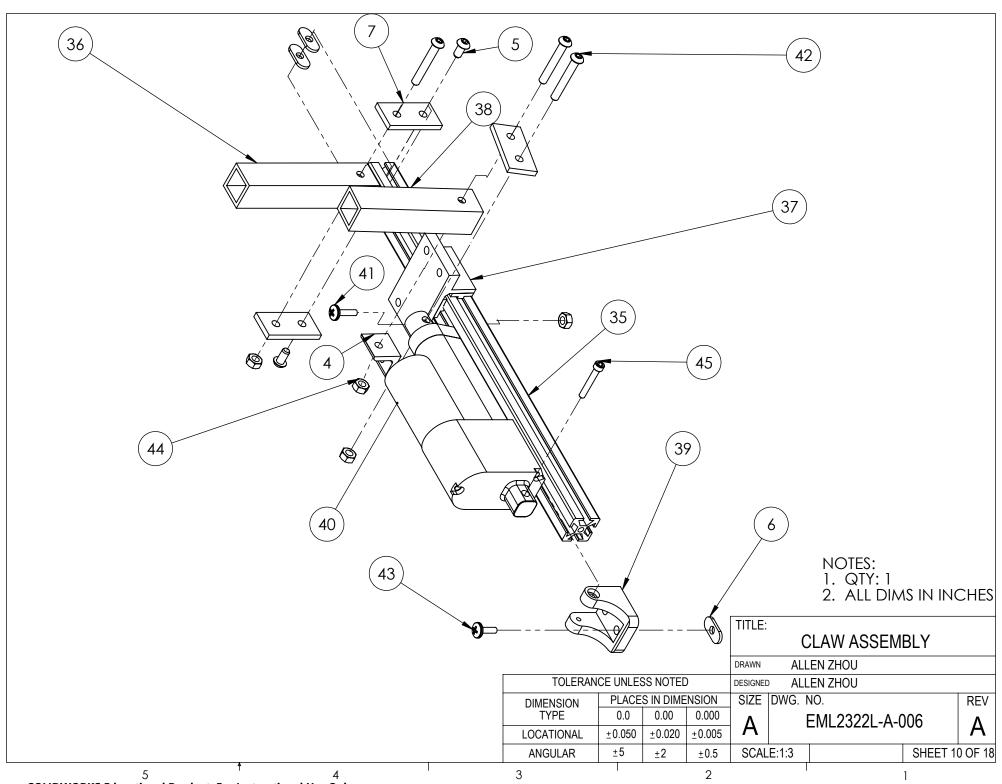
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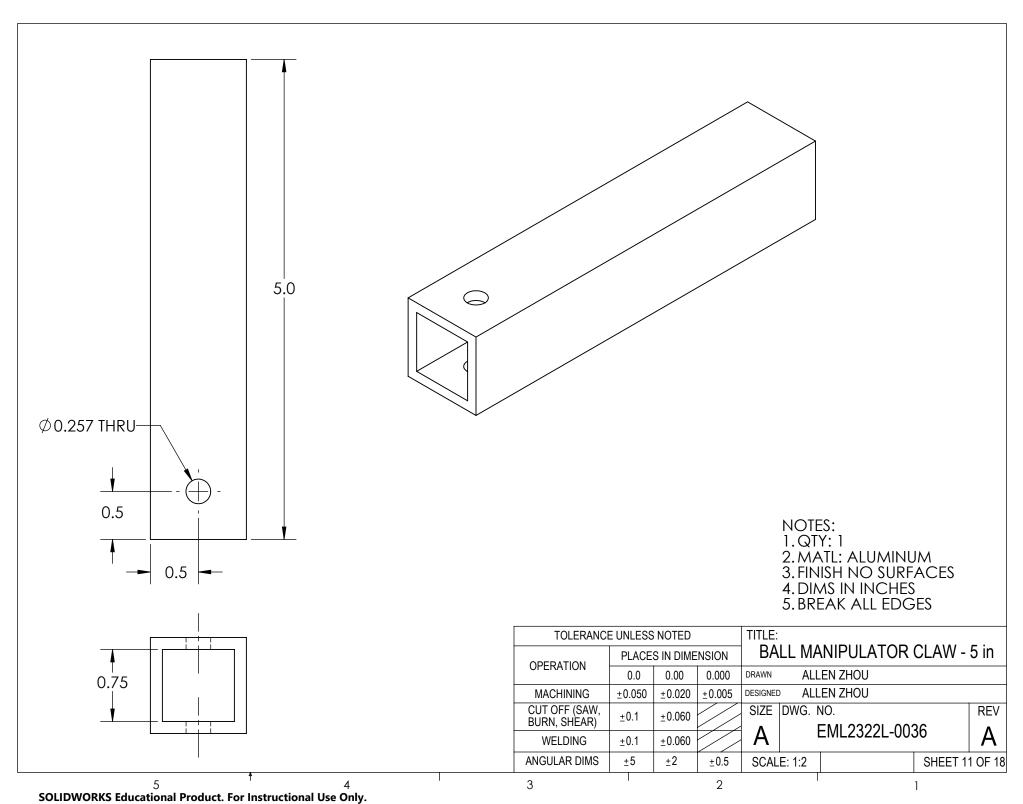
5 The solution of the solution

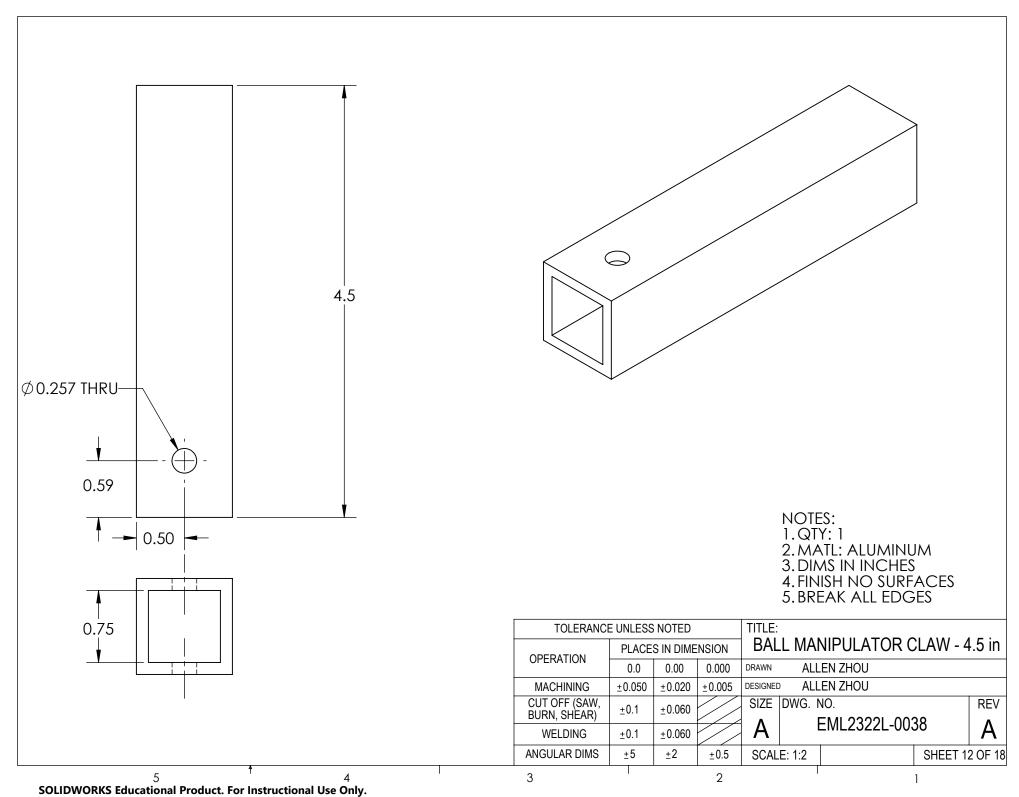
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
4	EML2322L-0004	80/20 90 DEG ANGLE BRACKET	1
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	2
6	EML2322L-0006	1/4-20 T-NUT	3
7	EML2322L-0007	80/20 STRAIGHT BRACKET	3
35	EML2322L-0035	80/20 EXTRUSION - 15.7 in	1
36	EML2322L-0036	BALL MANIPULATOR CLAW - 5 in	1
37	EML2322L-0037	80/20 LINEAR SLIDE	1
38	EML2322L-0038	BALL MANIPULATOR CLAW - 4.5 in	1
39	EML2322L-0039	10-24 LINEAR ACTUATOR MOUNT	1
40	EML2322L-0040	30 IPM SPAL LINEAR ACTUATOR (2in)	1
41	EML2322L-0041	1/4-20 x 3/4 in PAN HEAD SCREW	1
42	EML2322L-0042	1/4-20 x 1.75 in BUTTON HEAD SCREW	3
43	EML2322L-0043	1/4-20 x 5/8 in PAN HEAD SCREW	1
44	EML2322L-0044	1/4-20 in HEX NUT	5
45	EML2322L-0045	10-24 x 1.25 in SOCKET HEAD - PARTIAL THREAD	1

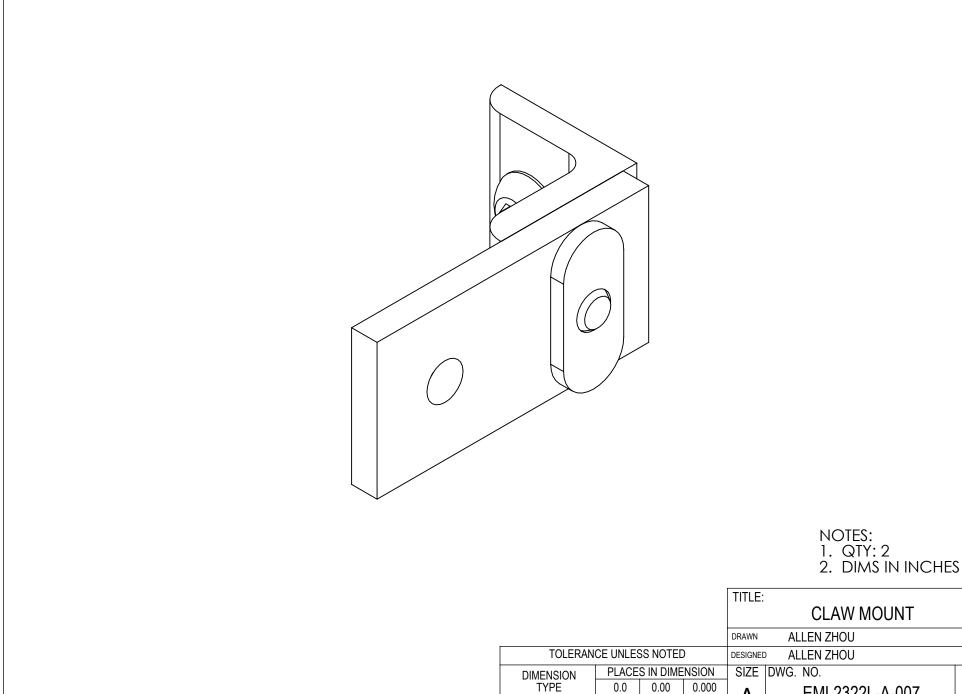
NOTES: 1. QTY: 1 2. ALL DIMS IN INCHES

					C	CLAW ASSEM	BLY	
				DRAWN	ALL	EN ZHOU		
TOLERAN	CE UNLES	SS NOTED	)	DESIGNED	ALL	EN ZHOU		
DIMENSION	PLACE	S IN DIME	NSION	SIZE	DWG. I	VO.		REV
TYPE	0.0	0.00	0.000	Λ		EML2322L-A-0	006	_ ^
LOCATIONAL	±0.050	±0.020	±0.005		'			A
ANGULAR	±5	±2	±0.5	SCAL	E: 1:8		SHEET 9	OF 18
3	T	· · · · ·	2				1	









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LOCATIONAL

**ANGULAR** 

2

±0.005

SCALE: 1:1

EML2322L-A-007

SHEET 13 OF 18

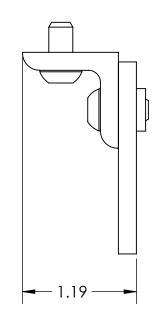
±2 ±0.5

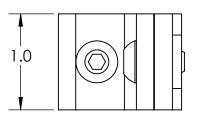
±0.020

±0.050

±5

REV





NOTES: 1. QTY: 2 2. DIMS IN INCHES

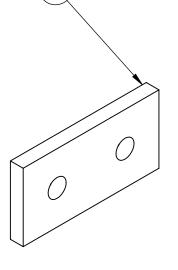
				11122.		CLAW MOUN	NΤ	
				DRAWN	ALL	EN ZHOU		
TOLERAN	CE UNLES	SS NOTED	)	DESIGNED	ALL	EN ZHOU		
DIMENSION	PLACE	S IN DIME	NSION	SIZE	DWG. 1	NO.		REV
TYPE	0.0	0.00	0.000	Λ.		EML2322L-A-0	<b>1</b> 07	Λ
LOCATIONAL	±0.050	±0.020	±0.005	A	•		301	A
ANGULAR	±5	±2	±0.5	SCAL	E: 1:1		SHEET 1	4 OF 18

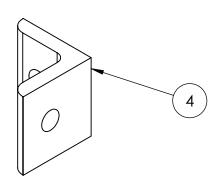
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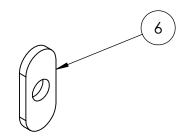
3

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
4	EML2322L-0004	80/20 90 DEG ANGLE BRACKET	1
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	2
6	EML2322L-0006	1/4-20 T-NUT	1
7	EML2322L-0007	80/20 STRAIGHT BRACKET	1







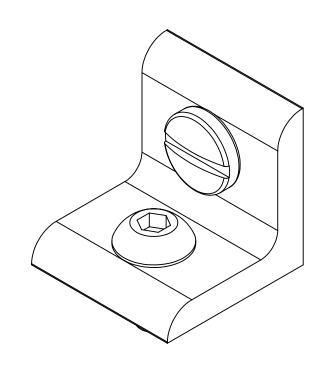


				11122.		<b>CLAW MOUN</b>	١T	
				DRAWN	ALL	EN ZHOU		
TOLERANCE UNLESS NOTED					ALL	EN ZHOU		
DIMENSION	MENSION PLACES IN DIMENSION			SIZE	DWG. 1	NO.		REV
TYPE	0.0	0.00	0.000	Λ.		EML2322L-A-0	07	<b>│</b> ∧ │
LOCATIONAL	±0.050	±0.020	±0.005	A	•		,01	A
ANGULAR	±5	±2	±0.5	SCAL	E: 1:4		SHEET 1	5 OF 18

TITLE:

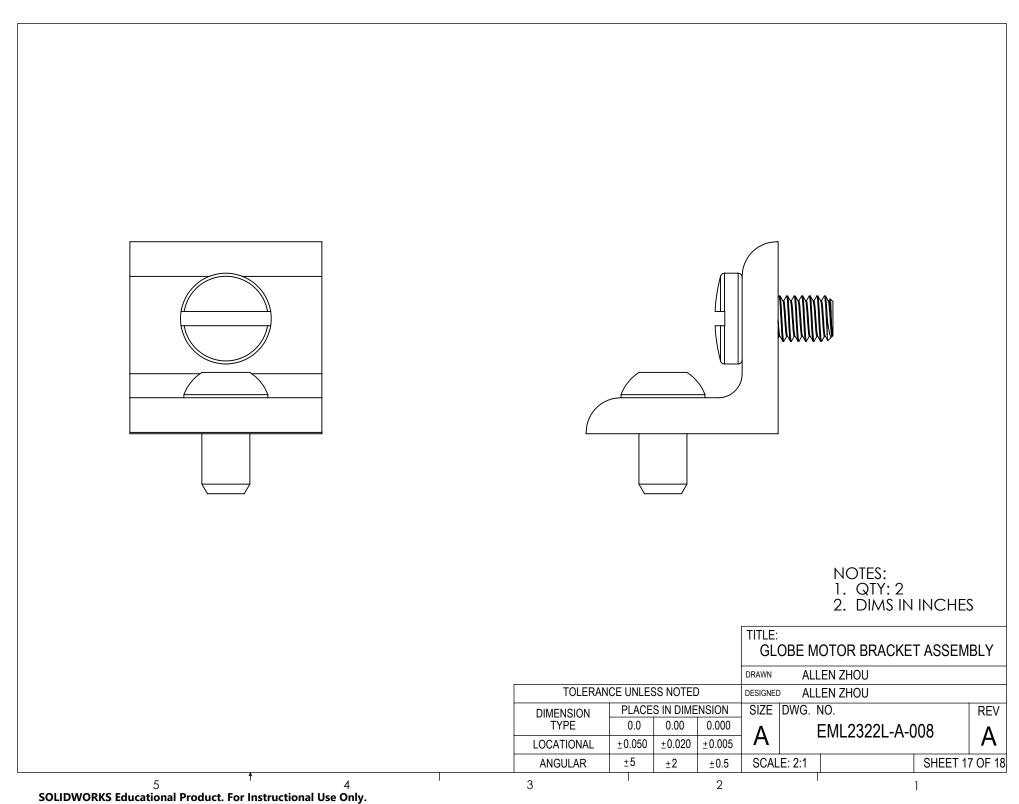
5 \$\frac{1}{5} \quad \frac{1}{5} \quad \frac{4}{5}\$ SOLIDWORKS Educational Product. For Instructional Use Only.

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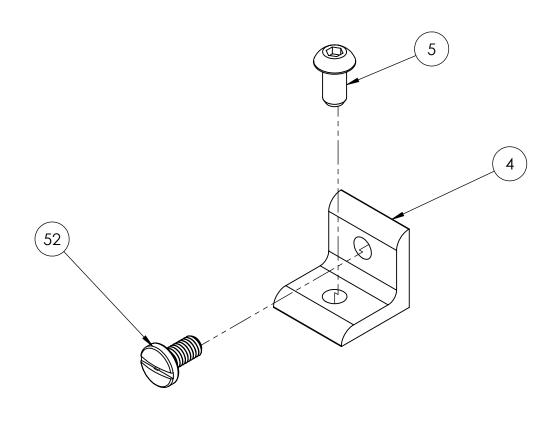


GLOBE MOTOR BRACKET ASSEMBLY

				DRAWN	ALL	.EN ZHOU		
TOLERANCE UNLESS NOTED				DESIGNED	ALL	EN ZHOU		
DIMENSION	PLACE	S IN DIME	NSION	SIZE	DWG. 1	NO.		REV
TYPE	0.0	0.00	0.000	Λ.		EML2322L-A-008		_ ^
LOCATIONAL	±0.050	±0.020	±0.005	A	•		300	A
ANGULAR	±5	±2	±0.5	SCALE: 1:2			SHEET 1	6 OF 18



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
4	EML2322L-0004	80/20 90 DEG ANGLE BRACKET	1
5	EML2322L-0005	1/4-20 x 1/2 in BUTTON HEAD CAP SCREW	1
52	EML2322L-0052	M6 x 1 - 12 mm PAN HEAD SCREW FOR GM	1



GLOBE MOTOR BRACKET ASSEMBLY

				DRAWN	ALL	.EN ZHOU		
TOLERANCE UNLESS NOTED				DESIGNED	ALL	EN ZHOU		
DIMENSION	PLACE	S IN DIME	NSION	SIZE	DWG. 1	NO.		REV
TYPE	0.0	0.00	0.000	Λ.		EML2322L-A-008		_ ^
LOCATIONAL	±0.050	±0.020	±0.005	A	•		300	A
ANGULAR	±5	±2	±0.5	SCALE: 1:2			SHEET 1	8 OF 18

